

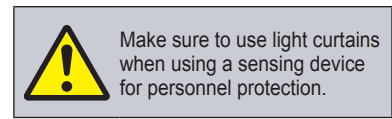
NA1-11

Related Information	■ General terms and conditions..... F-17	■ Sensor selection guideP.831~
	■ Glossary of terms..... P.1359~	■ General precautions P.1405

- FIBER SENSORS
- LASER SENSORS
- PHOTOELECTRIC SENSORS
- MICRO PHOTOELECTRIC SENSORS
- AREA SENSORS
- LIGHT CURTAINS
- PRESSURE / FLOW SENSORS
- INDUCTIVE PROXIMITY SENSORS
- PARTICULAR USE SENSORS**
- SENSOR OPTIONS
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- WIRE-SAVING SYSTEMS
- MEASUREMENT SENSORS
- STATIC CONTROL DEVICES
- ENDOSCOPE
- LASER MARKERS
- PLC / TERMINALS
- HUMAN MACHINE INTERFACES
- ENERGY CONSUMPTION VISUALIZATION COMPONENTS
- FA COMPONENTS
- MACHINE VISION SYSTEMS
- UV CURING SYSTEMS



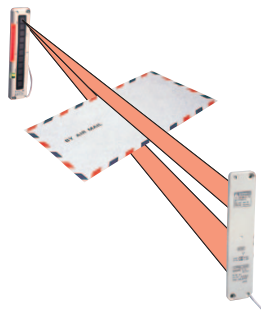
panasonic-electric-works.net/sunx



Cross-beam scanning system to detect slim objects

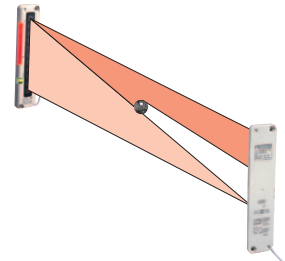
Letters or business cards detectable!

Slim objects can be detected by the cross-beam scanning system.



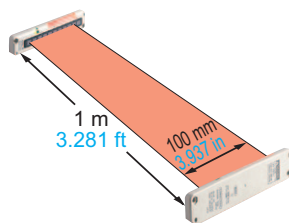
Emitting and receiving element pitch: 10 mm 0.394 in

A minimum sensing object size of $\phi 13.5$ mm $\phi 0.531$ in can be detected by an emitting and receiving element pitch of 10 mm 0.394 in.



Wide area

Though being extremely slim, it has a wide sensing area of 1 m 3.281 ft length and 100 mm 3.937 in width. It is most suitable for object detection on a wide assembly line, or for detecting the dropping of, or incursion by, small objects whose travel path is uncertain.



Just 10 mm 0.394 in thick

It is extremely slim, being just 10 mm 0.394 in thick. Further, it can be mounted in a narrow space as you can select from two cable orientation directions.



It is possible to select from two cable orientation directions.

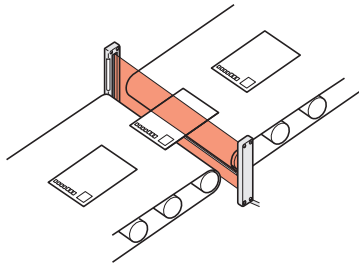
Globally usable

It conforms to the EMC Directive and the UL Recognition. Moreover, PNP output type, which is much in demand in Europe, is also available.

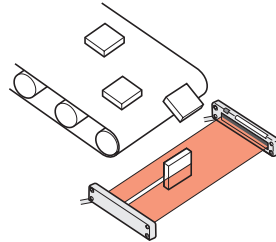
- Selection Guide
- Wafer Detection
- Liquid Leak Detection
- Liquid Level Detection
- Water Detection
- Color Mark Detection
- Hot Melt Glue Detection
- Ultrasonic
- Small / Slim Object Detection
- Obstacle Detection
- Other Products

APPLICATIONS

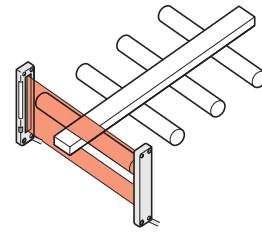
Detecting post-cards



Detecting falling objects whose path is uncertain



Detecting the edges of moving objects



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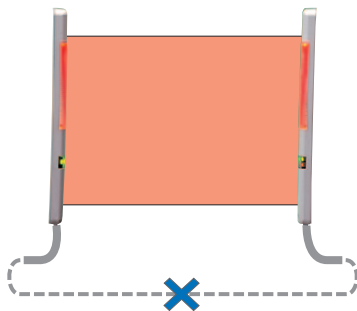
Other Products

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 **WARNING** Never use this product in any personnel safety application.

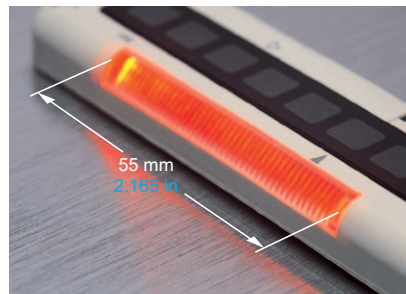
No synchronization wire

Wiring is saved and made simple as no synchronization wire is required between the emitter and the receiver.



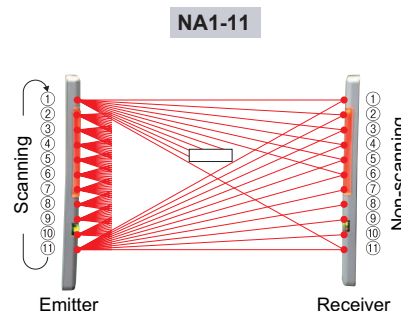
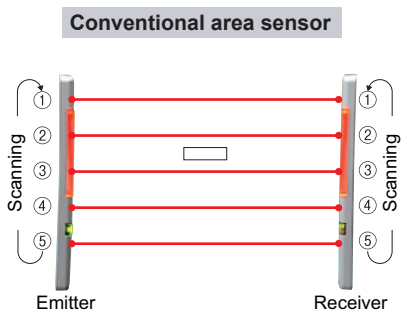
Clearly visible indicator

A clearly visible large indicator, having a 55 mm 2.165 in width, is incorporated on both the emitter and the receiver. Further, if the sensing output is directly connected to the large indicator input, the indicator can be conveniently used as a large operation indicator. Moreover, its operation is selectable between lighting or blinking.



Cross-beam Scanning System

In a conventional area sensor, slim objects cannot be detected since the emitting and the receiving elements are scanned synchronously as a set. In contrast, in **NA1-11**, only the elements ① to ⑾ of the emitter are scanned to obtain emission. The elements of the receiver are not scanned, so that when element ① of the emitter emits light, all the elements of the receiver receive light. Hence, even if there is one element on the receiver which does not receive light, it results in light interrupted operation. With this technique, detection of slim objects is possible.



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